

GRAHAM-PATTEN

D/ESAM 8000

Installation Guide



Revision 2.2a
January 2007

Warranty Statement

Graham-Patten warrants that the equipment it manufactures is free from defects in workmanship and materials and meets applicable published specifications. Equipment which has been operated within its ratings and has not been subjected to mechanical or other abuse or modification and has failed because of such defects, will, at the option of Graham-Patten, be replaced or repaired if it is returned, freight prepaid, to Graham-Patten. The D/ESAM 8000 control panel is warranted for two (2) years from date of shipment. The VADIS frame and its components and the CPU controller and its components are warranted for one (1) year from date of shipment. Equipment that fails under conditions other than described herein will be repaired at the price of components and labor in affect at the time of repair.

This warranty is in lieu of all other warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. Graham-Patten is not liable for any consequential damages.

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Introduction

Overview

This guide provides information for the installation of the D/ESAM 8000 audio mixer. The following information is covered in this Installation Guide:

Dimensions

Diagrams showing dimensions for the control panel, CPU controller and Vadis chassis.

System Interconnection

Information and diagrams outlining the basic system connections including sync and Ethernet.

Audio Inputs

Information and diagrams about audio inputs.

Audio Outputs

Information and diagrams about audio outputs.

Audio Connector Panels

Information and diagrams about audio connector panels.

GPI Input Connections

Connector pin out diagram and other info for GPI input connections.

Tone Generator

Information on how to change Level and frequency values of the internal tone generator.

Adding/Removing Input, Output or DSP Modules

Information on adding and removing modules to the Vadis frame and changing the configuration file.

Boot-Up Procedures

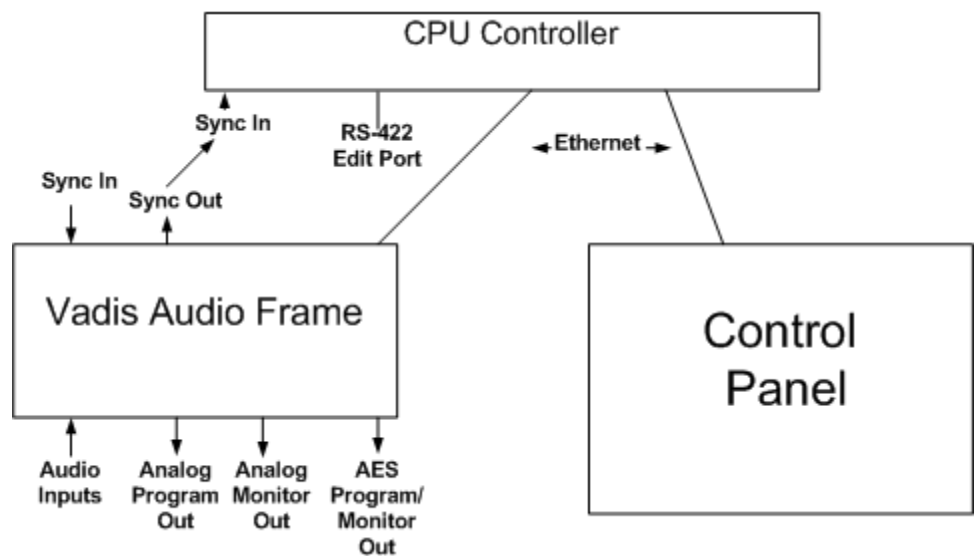
This section shows how to properly boot up and shut down the D/ESAM 8000.

D/ESAM 8000 INI file

Information on user configurable parameters in the INI file. Adding Meters, Bus Mapping and Cross point remapping.

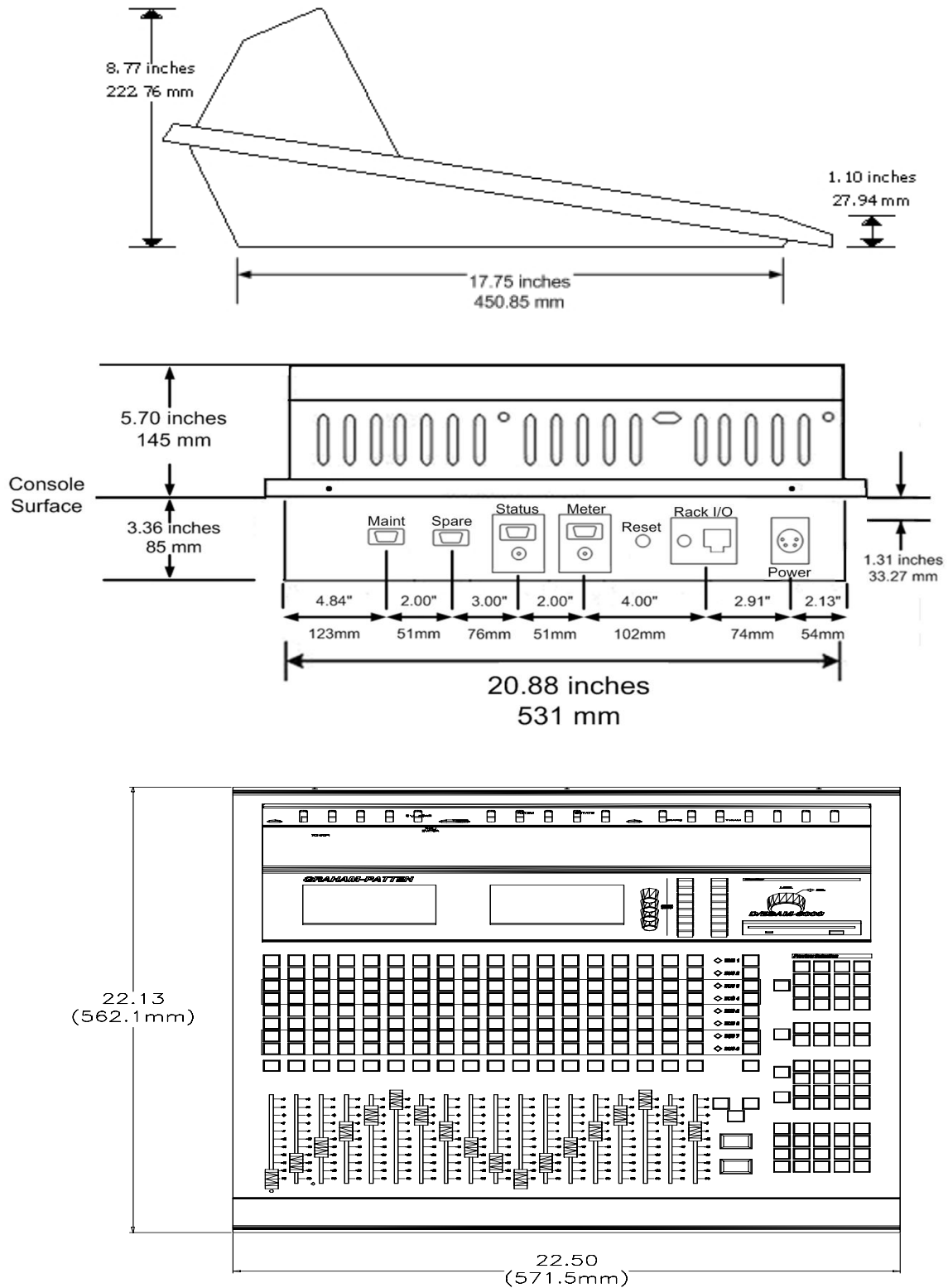
System Block Diagram

The D/ESAM 8000 consists of three major units: The Vadis audio frame which consists of input, output and DSP boards. The Control Panel is the user interface for routing audio signals and applying effects. The CPU is the interface between the Vadis frame and Control Panel. The CPU communicates with the Vadis frame and Control Panel using two Ethernet ports and edit controllers using an RS-422 port. Memory registers and Virtual machines are stored here as well.

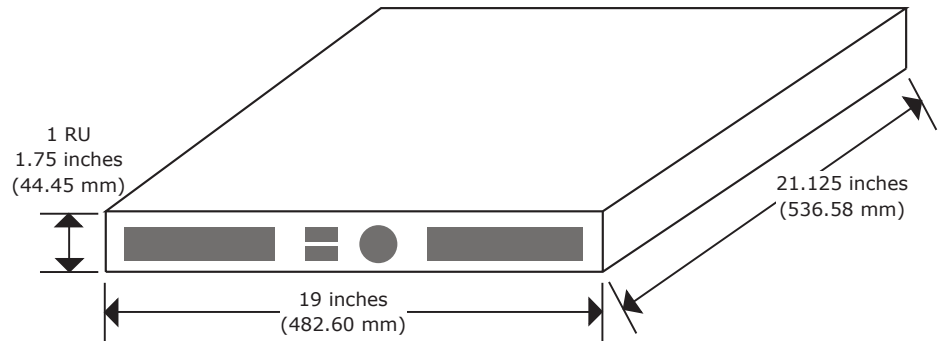


Dimensions

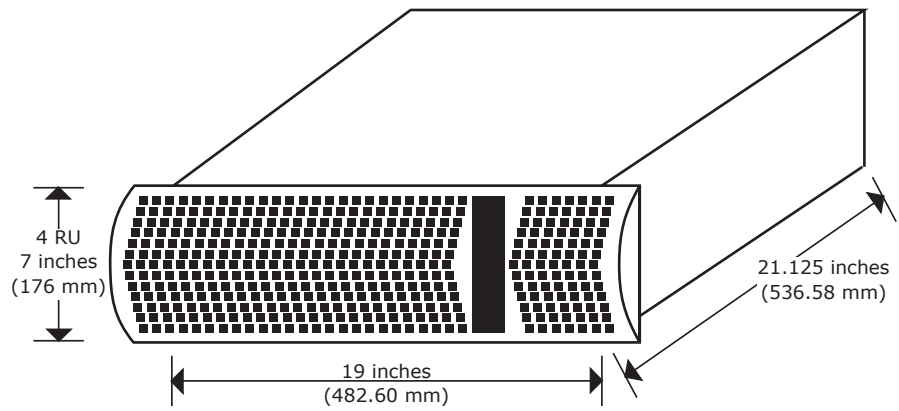
Control Panel



CPU Controller



Vadis Chassis



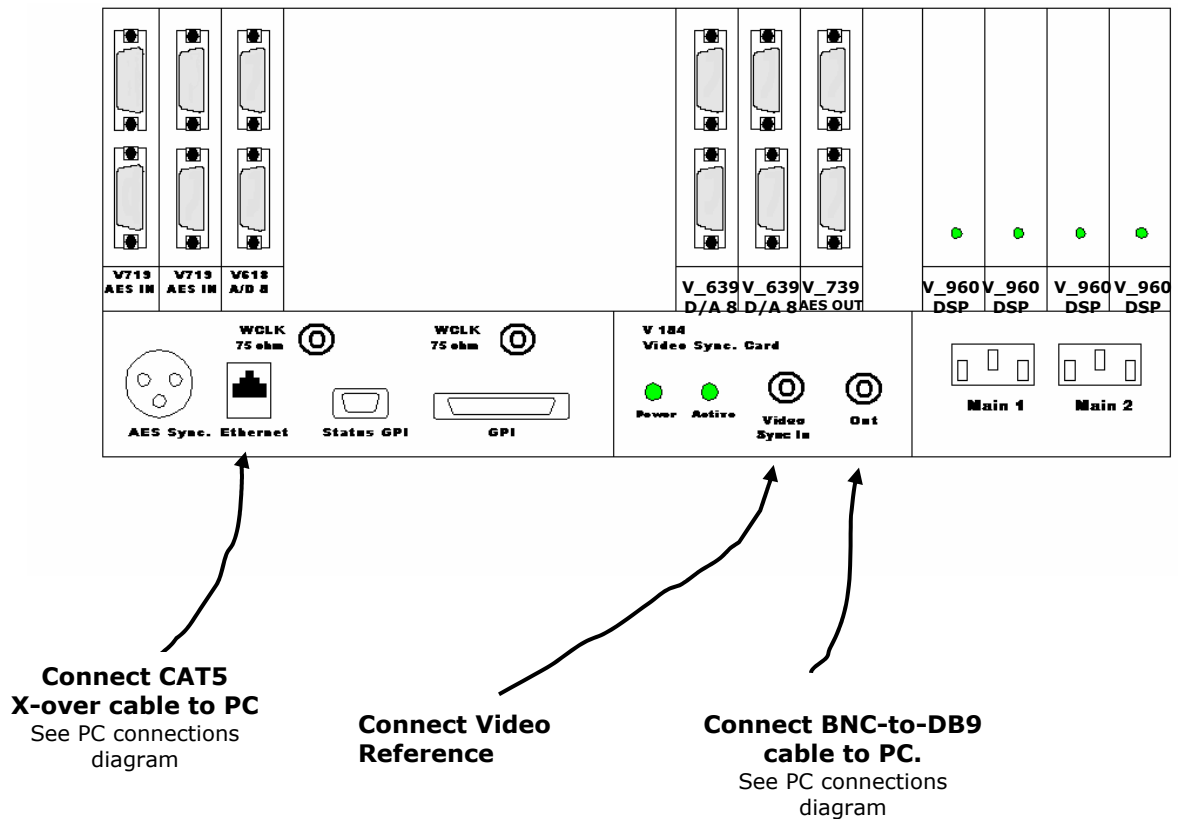
System Interconnection

Vadis 888 Frame

The new Vadis 888 frame operates in the same fashion as the older V880 frame. Only the connections are different. See the diagram below for connections to the Vadis 888 Frame.

Status GPI and GPI connections are not used in the D/ESAM 8000 application. For GPI connections see the GPI section in this manual.

Main 1 is used if no redundant power supply is used. If a redundant supply is used connect power to Main 1 and Main 2.



Basic Connections

The following is a list of connections that must be made to the D/ESAM 8000 system before booting up. Some of these connections are given greater detail and diagrams following this checklist.

Basic Connections Checklist:

- Connect power to all 3 components in the system: control panel, Vadis audio frame and controller chassis.
- Connect the control panel to the left Ethernet port on the back of the CPU controller chassis using the longer standard Category 5, RJ45 Ethernet cable provided.

NOTE: *If you are connecting the control panel to an Ethernet hub, use a crossover Ethernet cable.*

- Connect the Vadis audio frame to the right Ethernet port on the back of the CPU controller chassis using the shorter crossover Ethernet cable provided.
- Connect your audio sources to the proper audio inputs on the Vadis audio frame.

These inputs will vary depending on the system configuration. For specific input connections information refer to the section covering audio inputs later in this manual.

- Connect your audio outputs to the proper audio outputs on the Vadis audio frame.

These outputs will vary depending on your system configuration. For specific output connections information refer to the section covering audio outputs later in this manual.

- Connect a mouse, keyboard and VGA-compatible monitor to the CPU controller chassis.

NOTE: *These are not included with the D/ESAM 8000 system.*

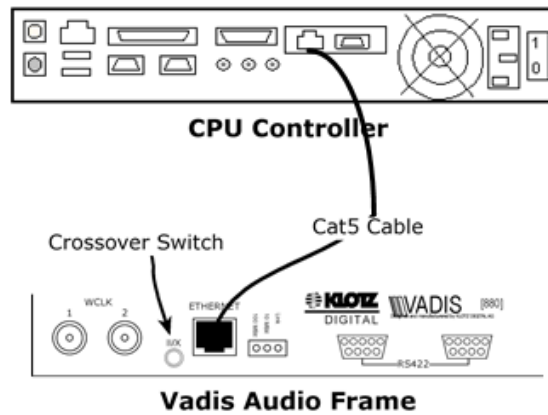
- Connect the edit controller to the 9-pin female D-connector on the rear of the CPU controller chassis.
- Connect video reference to the jack labeled **WCLK1** located on the left side of the back of the Vadis chassis.
- Using the BNC to DB9 cable provided, connect one end to the male 9-pin D-connector on the rear of the CPU chassis and the other end to the jack labeled **WCLK2** located on the left side of the back of the Vadis chassis.

Ethernet Connections

There are 2 Ethernet connections in the D/ESAM 8000 system: one for the Vadis audio frame and one for the control panel.

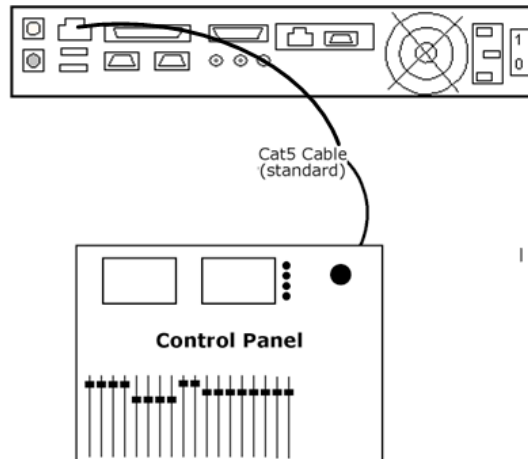
Vadis Audio Frame

The Vadis Ethernet connection is made using the shorter, Cat-5 crossover Ethernet cable provided. If the link light next to the Ethernet connector on the Vadis frame continues to flash (indicating no connection) then the crossover switch on the Vadis frame may be set incorrectly. Try the other position.

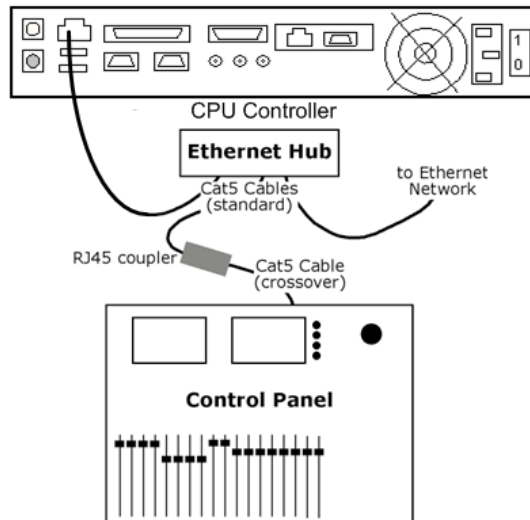


Control Panel

The control panel can be connected in two different ways: direct or via an Ethernet hub. The following is a diagram of the direct Ethernet connection:



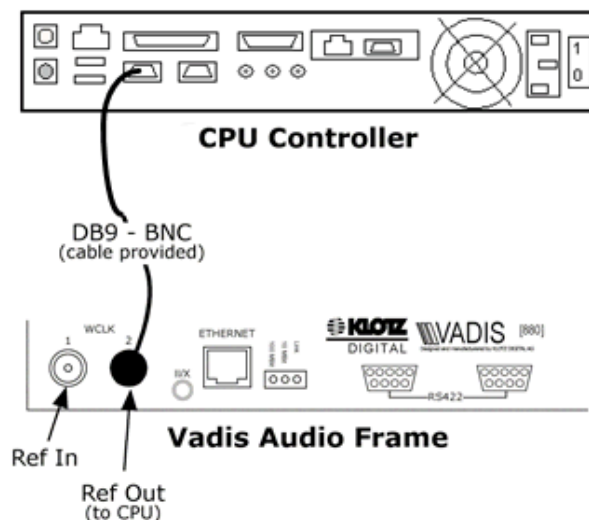
The D/ESAM 8000 control panel and CPU chassis can also be connected to an Ethernet network using an Ethernet hub. The following is a diagram of a connection to an Ethernet hub:



Sync/Reference Connection

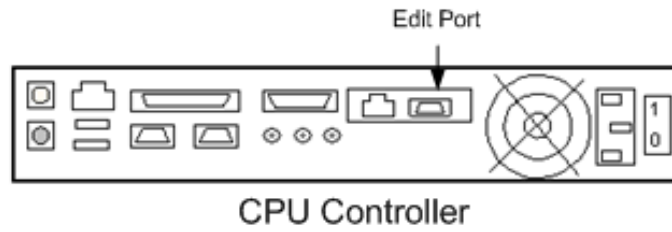
In order to properly connect video reference to the Vadis audio frame, please follow the steps below.

1. Connect the video reference input to the jack labeled WCLK1 on the back of the Vadis chassis.
2. Using the special cable provided, connect the video reference output to the jack labeled WCLK2 on the back of the Vadis chassis.
3. Connect the other end of the cable to the 9-pin D-connector on the back of the CPU controller chassis.



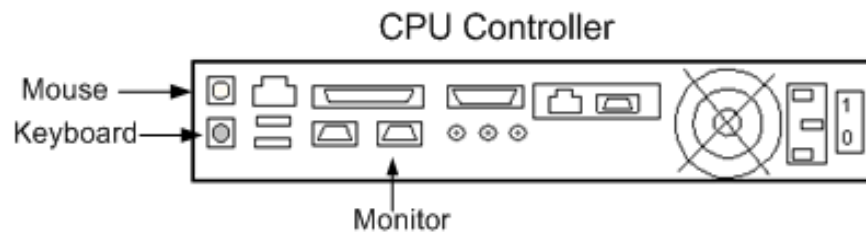
RS-422 Editor Remote Connection

The drawing below illustrates where to connect an edit system to the D/ESAM 8000.



Monitor, Mouse and Keyboard

The Drawing below shows where to connect the Monitor, Mouse and Keyboard to the D/ESAM 8000.



Setting Operating Voltages

The D/ESAM 8000 will come configured for either 120V or 220V operation based on the order. If it is necessary to change the operation voltages, perform the following.

Control Panel

The control panels external power pack will auto sense the incoming A/C voltage and no changes are necessary.

CPU Controller

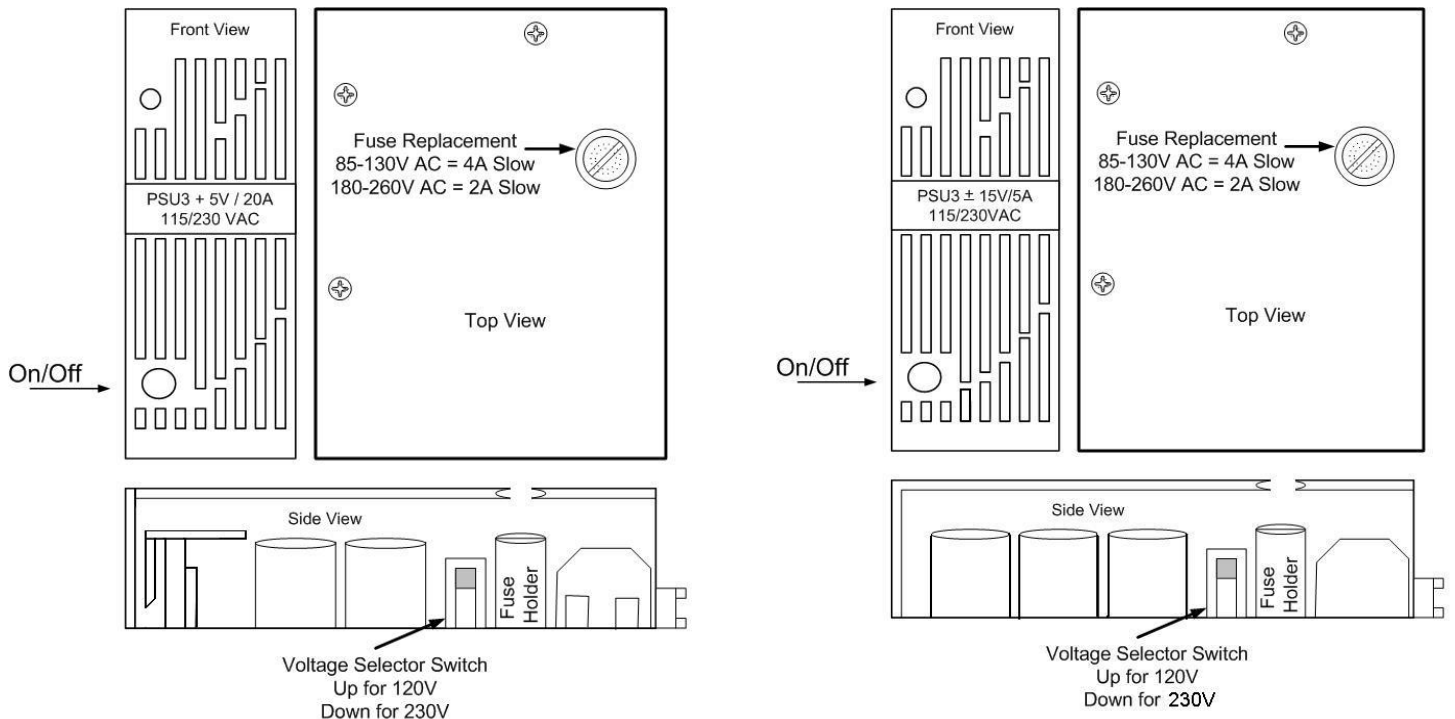
The CPU controller auto senses the incoming A/C voltage and no changes are necessary.

Vadis Frame

1. Remove the +5V and $\pm 15V$ power supplies from the Vadis frame.
2. Change the voltage selector switch to the appropriate operating voltage (See Diagram).
3. Change the fuse to the appropriate rating fuse.

85-130V use a 4A slow blow fuse

180-260V use a 2A slow blow fuse



Audio Inputs

The D/ESAM 8000 configuration varies depending on your requirements. This section will outline the basic connections of the audio input cards offered by Graham-Patten Systems for the D/ESAM 8000.

The following is a list of the audio input cards offered and notes about them.

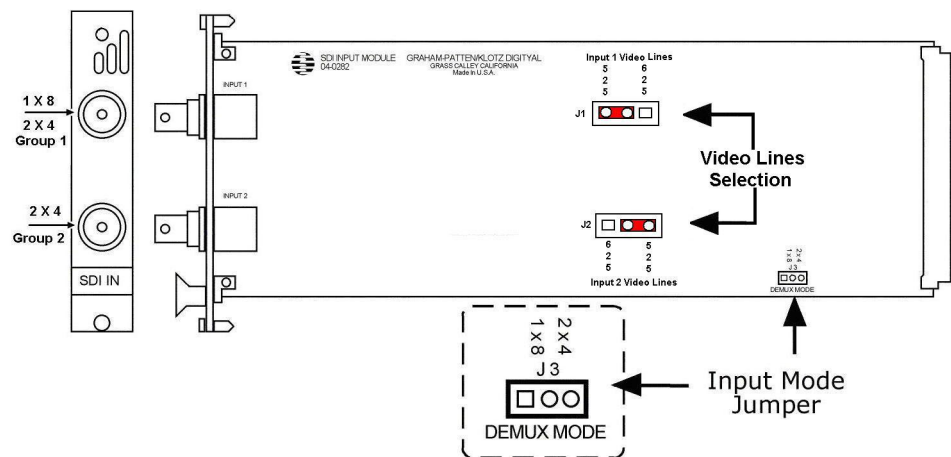
Format	# of Inputs	Notes (see below)
SDI	8	1,5
AES	16	2,3
Analog	8	4

Notes:

- 1 Jumper on the card to allow 4 inputs per connector or all 8 on top connector. This can also be changed in the `desam.cfg` file on the CPU controller chassis. Instructions can be found in the file and the D/ESAMTAGS section of this manual.
- 2 Jumper on the card to allow 75 or 100 ohm input.
- 3 The AES input card accepts 8 stereo pairs for a total of 16 discrete channels.
- 4 Jumpers on the card allow for changing gain levels. These levels are: 12dB, 15dB, 16dB, 22dB, and 24dB. 24dB is the default level.
- 5 Jumper on the card allows for selection of 525 or 625 video line operation.

SDI Input

To change to the 1x8 or 2x4 mode using software control, see the D/ESAMTAGS section of this manual.

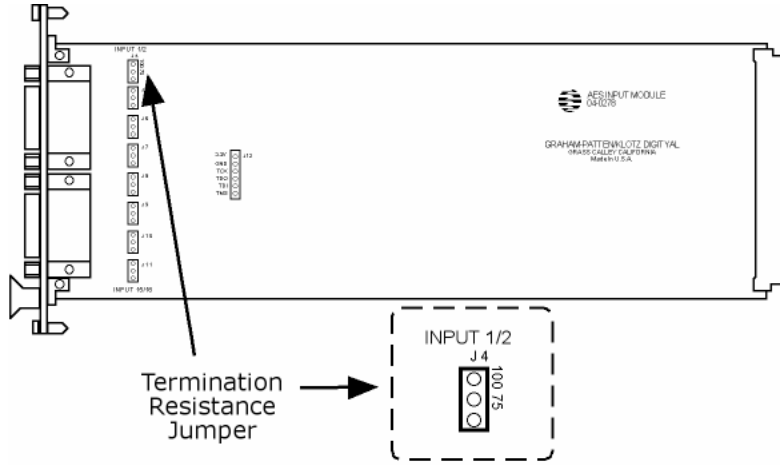


SDI Input Card

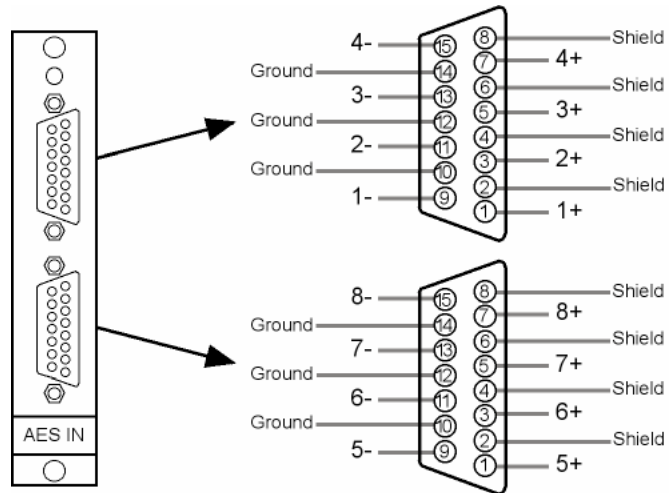
NOTE: The DEMUX mode of the SDI input card can also be changed in the `desam.cfg` file on the CPU controller chassis. Instructions can be found in the D/ESAMTAG section of this manual.

AES Input

To turn off the source rate converters, see the D/ESAMTAGS section of this manual.

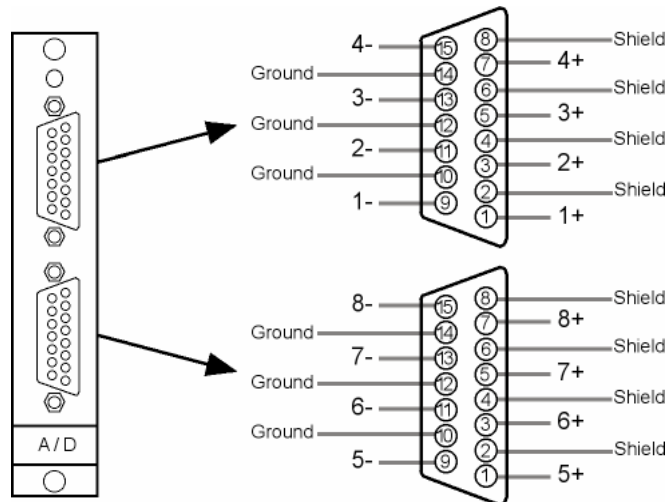
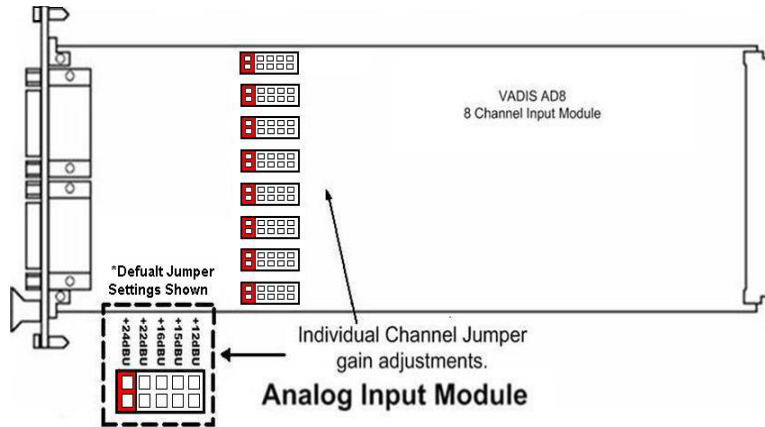


AES Input Card



**AES Input Card
Connector Pinout
15 Pin - Female**

Analog Input



**Analog Input Card
Connector Pinout**
15 Pin - Female

Audio Outputs

The D/ESAM 8000 configuration varies depending on your requirements. This section will outline the basic connections of the audio output cards offered by Graham-Patten Systems for the D/ESAM 8000.

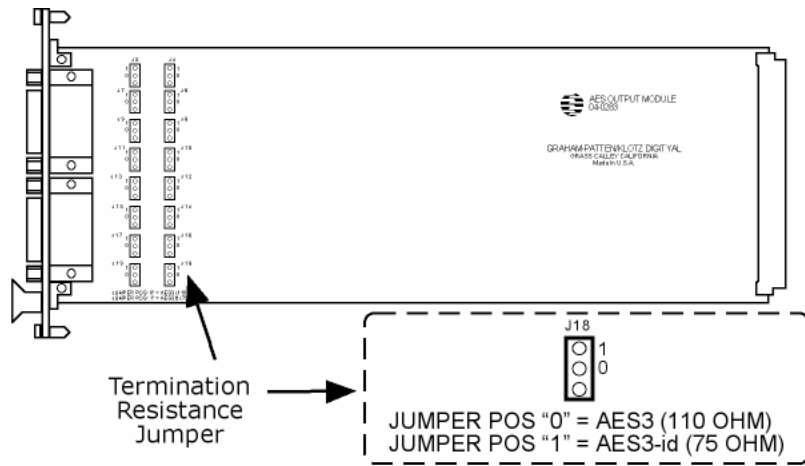
The following is a list of the audio output cards offered and notes about them.

Format	# of Outputs	Notes (see below)
AES	16	1,2
Analog	8	3

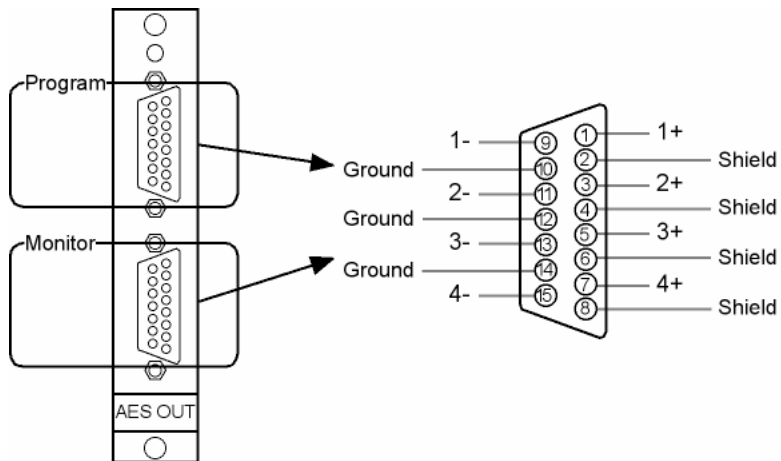
Notes:

- 1 Jumper on the card to allow 75 or 100 ohm output.
- 2 The AES output card allows 8 stereo pairs for a total of 16 discrete channels. Program output on the top connector and monitor output on the bottom connector. However, the monitor outputs can be changed to meter outputs for external metering. This is done in the `desam.cfg` file using `D/ESAMTAGS`. See the `D/ESAMTAGS` section of this manual.
- 3 The analog card on the left handles the program output. The analog card on the right is the monitor output of the mixer. Jumpers on the card allow for changing gain levels. These levels are: 12dB, 15dB, 16dB, 22dB, and 24dB. 24dB is the default level.

AES Output



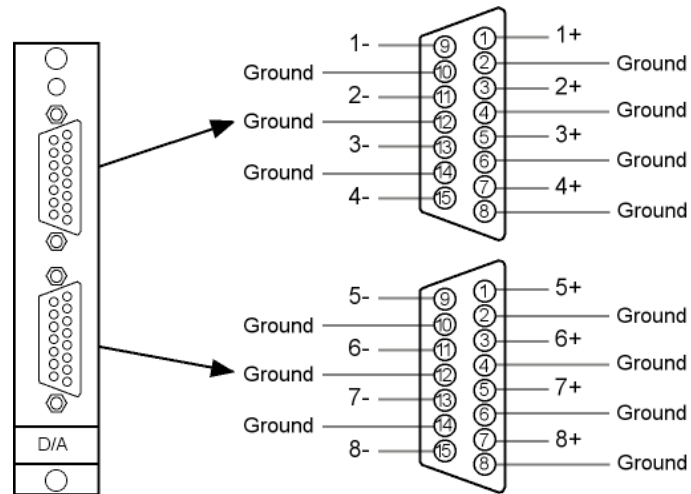
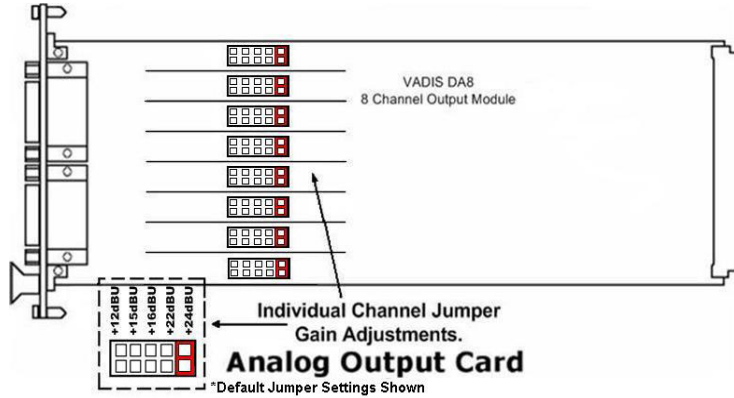
AES Output Card



**AES Output Card
Connector Pinout**
15 Pin - Male

NOTE: The AES output card allows 8 stereo pairs for a total of 16 discrete channels. Program output on the top connector and monitor output on the bottom connector. However, the monitor outputs can be changed to meter outputs for external metering. This is done in the `desam.cfg` file using `D/ESAMTAGS`. See the `D/ESAMTAGS` section of this manual.

Analog Output



**Analog Output Card
Connector Pinout**
15 Pin - Male

NOTE: When installed in the Vadis chassis, the analog card on the left handles the program output. The analog card on the right is the monitor output of the mixer. However, the monitor outputs can be changed to meter outputs for external metering. This is done in the `desam.cfg` file using `D/ESAMTAGS`. See the `D/ESAMTAGS` section of this manual.

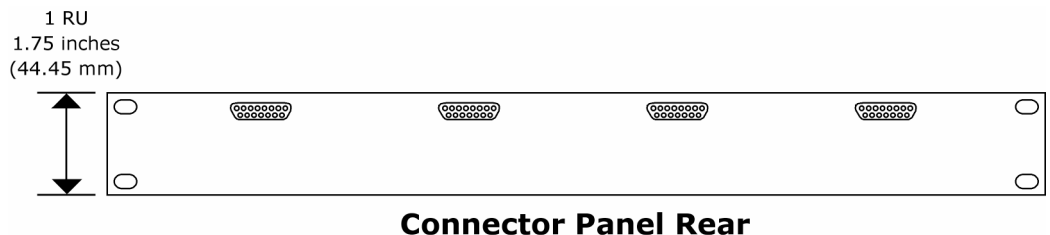
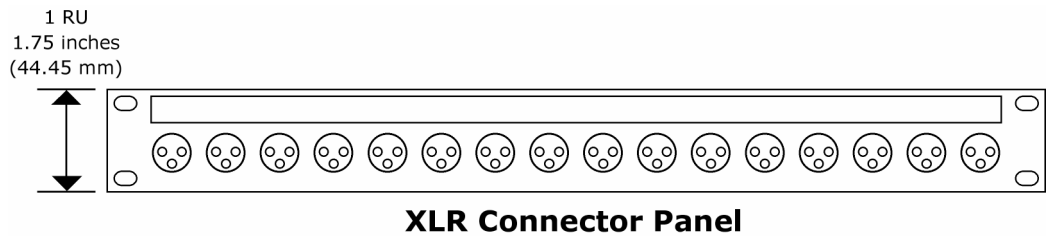
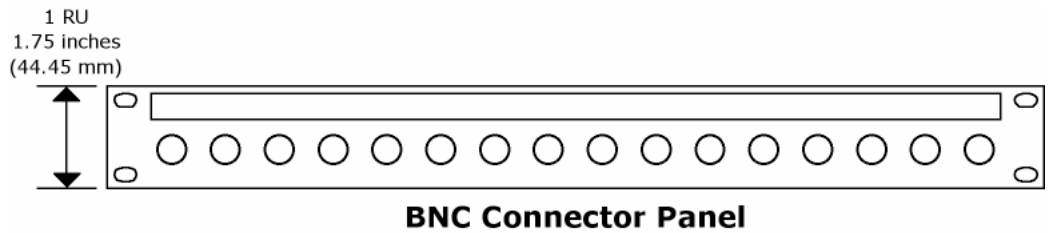
Audio Connector Panels

The D/ESAM 8000 configuration varies depending on your requirements. This section will outline the basic connector panels offered by Graham-Patten Systems for the D/ESAM 8000.

Below is a list of connector panels offered and some notes about them.

Format	Connector Type	Channels/Pairs	Cable Length (ft/m)
AES3id	BNC	32/16	3/1
AES3	XLR	32/16	3/1
Analog	XLR	16	3/1

All connector panels are one rack unit high (1.75in. / 44.45mm) and have a cable length of 3ft (1m). Panels with XLR connectors can be ordered with either female (input) or male (output) connectors. Cables are straight through, pin-to-pin. For pinout information, please consult the appropriate input or output card diagrams contained in this manual.



I/O Panel Connections

The D/ESAM 8000 configuration varies depending on your requirements. This section outlines the basic connections between the connector panels and the Vadis frame.

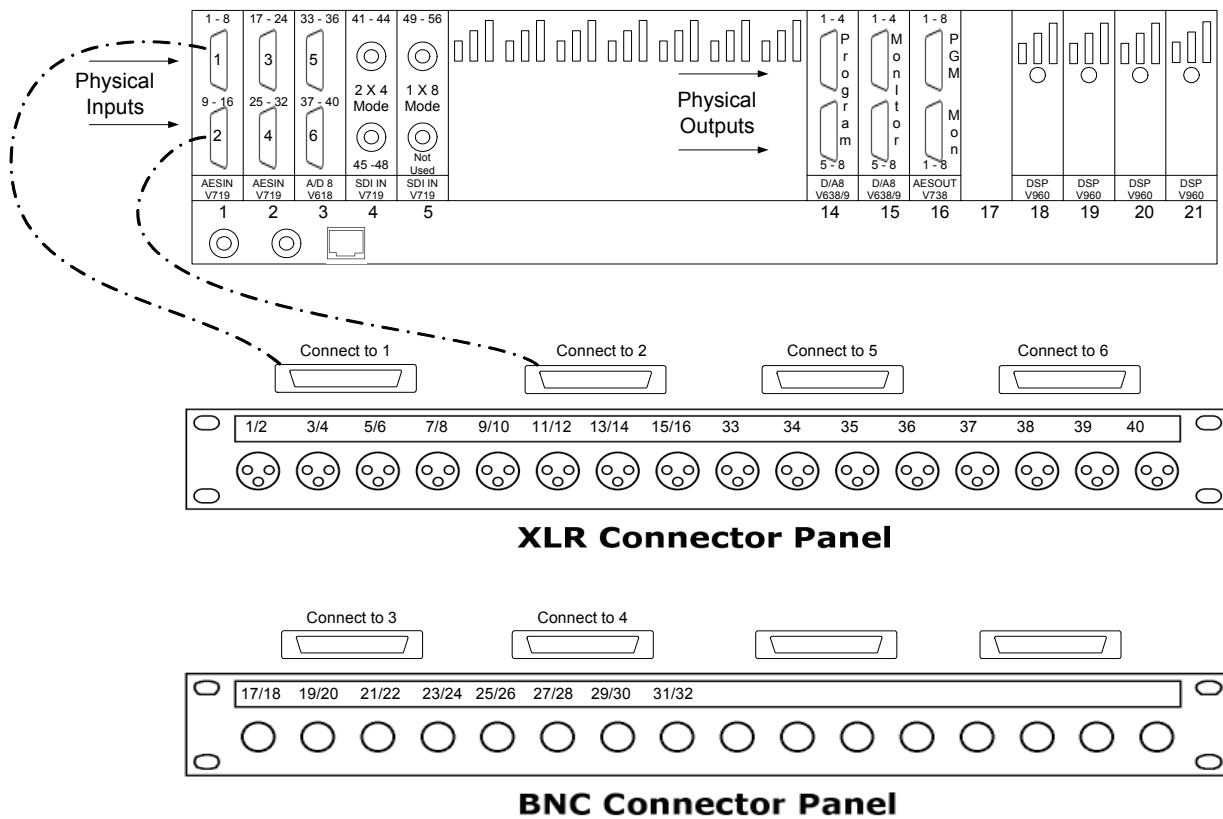
Input Connector Panels

The figure below shows a basic system configuration. It consists of two 16 channel AES input cards in slot 1 & 2, one 8 channel analog input card in slot 3 and two SDI input cards in slots 4 & 5.

The first AES input card is connected to the XLR connector panel with inputs 1 thru 16. The next AES input card in slot 2 is connected to the BNC connector panel with inputs 17 thru 32.

The Analog input card in slot 3 is connected to the XLR panel with inputs 33 thru 40.

The SDI inputs are connected directly to the SDI source. In the 2 X 4 mode the top BNC connection will give 4 audio channels from group 1 and the bottom BNC will give you 4 from group 2. In the 1 X 8 mode all 8 channels come from the top BNC connector. To change the mode of the SDI card see the D/ESAMTAGS section of this manual.

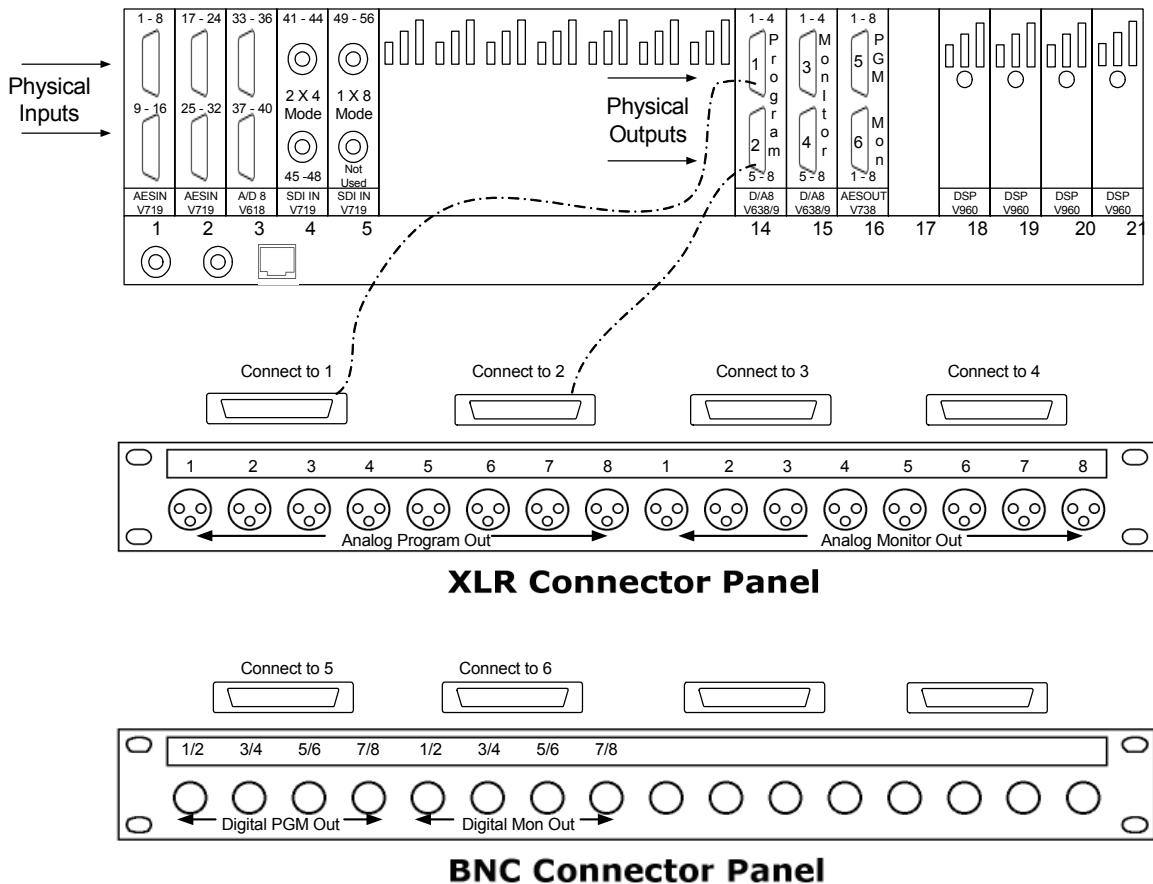


Output Connector Panels

The figure below shows a typical output configuration for the D/ESAM 8000. It consists of two analog output modules, slot 14 and 15, and an AES output module in slot 16.

The AES output module has 8 Program and 8 Monitor outputs. Either connector panel, XLR or BNC, may be used for the AES outputs. The Monitor outputs can be configured as meter outputs, for more information see the D/ESAMTAGS section of this manual.

The analog output modules are always configured for one monitor output, slot 15, and one program output, slot 14. If only one analog output module is present it is configured as a monitor output. The monitor output can be configured as a meter output, for more information see the D/ESAMTAGS section of this manual.

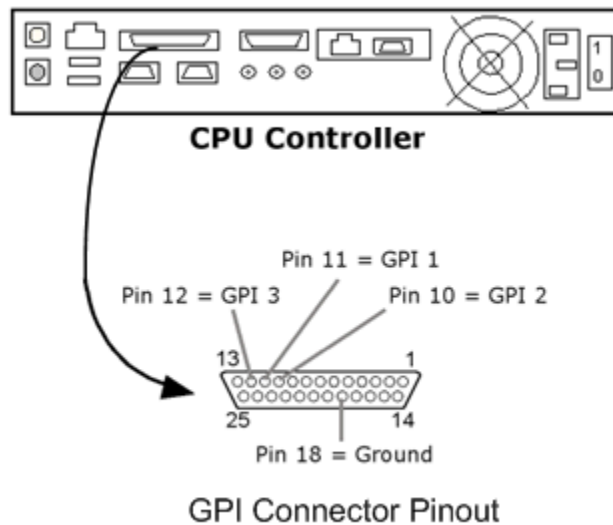


GPI Input Connections

The D/ESAM 8000 allows for GPI inputs to trigger a command in the remote protocol. The factory default for GPI inputs is shown below along with pinout information for the GPI connector on the back of the CPU controller chassis.

NOTE: This is the default GPI setting for new systems shipping. Please refer to the *desam.ini* file later in this manual for further detail. This information is also in the *desam.ini* file itself located in the *D/ESAM 8000* directory on the CPU controller.

GPI #	Pin #	Command
2	10	Mix Out On/Off (toggle)
1	11	Trans Start
3	12	Cut

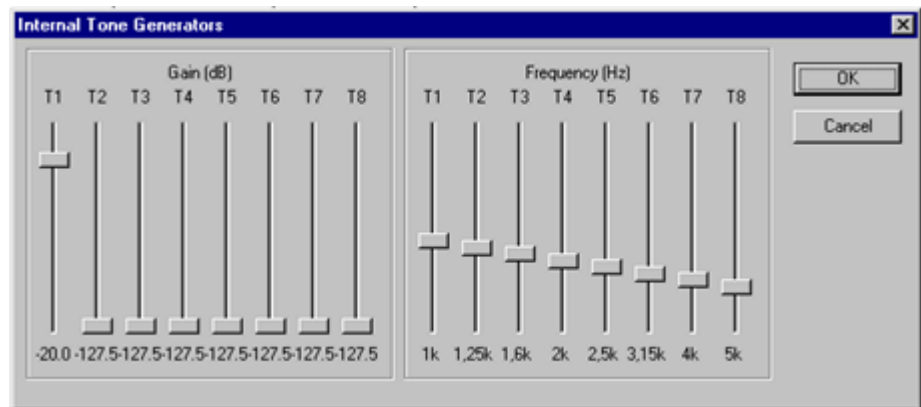


Tone Generator

The D/ESAM 8000 allows the user to change Level and Frequency values of the internal tone generator.


Perform the following steps to change values of the tone generator:

1. If the monitor, mouse and keyboard have not been connected, perform a system shut down as described in this manual. Connect the monitor, mouse and keyboard and re-boot.
2. Select the DESAM 8000 application.
3. Select Maintenance on the top Menu bar.
4. Select System.
5. Select Internal Tone Generator.
6. The screen below will appear.



7. With the mouse move the fader for the appropriate Gain and Frequency

Note: T1 level and frequency is applied to all output buses

when the  button on the control panel is selected.

8. Once all adjustments are complete click the OK button to close the screen.

Adding/Removing Input, Output or DSP Modules

1. If a monitor, mouse and keyboard are not connected perform a system shut down as described in this manual. Connect the monitor, mouse and keyboard and re-boot the system.
2. Shut down the Desam8000 application followed by the Vadis application. Make sure to shut them down in this order.
3. Add or remove the module(s). The Vadis frame can be powered on.
4. Start Windows NT Explorer.
5. Open the Vadis folder on the C: drive.
6. Open the desam.cfg file to edit.
7. Scroll down until you see [FRAME], this is where you will add or remove the appropriate module. The section is broken up into INPUT and OUTPUT Sections.

Note: Board 0 in the cfg file is slot 1 in the Vadis frame, board 1 is slot 2, etc.

8. To delete a board either put an ; in front of the word BOARD in the file or completely delete it from the file.
9. To add a board type BOARD then appropriate number for the slot it is installed in. Then add the board type. Board types are found in the comment section of the file.

Example: BOARD 14 DA8 –This adds an analog output module into slot 15 of the Vadis frame.

10. There is a list of DESAMTAG's in the comment section. The DESAMTAG's have specific functions that are described in the file and in this manual. They perform functions such as turning ON/OFF the source rate converters on the AES input module or setting the AES monitor outputs to Meter outputs to be used for external metering.
11. To add a forth DSP board uncomment the lines under the 4 DSP SYSTEM section and comment out the lines under 3 DSP section. To remove a DSP card do the opposite as described above



Note: There are instructions in the CFG file.

12. Save and close the file.
13. Run DVCG (Desam Vadis Configuration Generator) on the desk top by double clicking the ICON. This will open the box below and write the appropriate configuration files.


```



DVCG
C:\WINNT\Profiles\desam8000\Desktop>echo off
Opening C:/vadis/desam.cfg for reading...
Writing C:/vadis/desam.cns...
Writing C:/vadis/desam.vds...
Writing C:/vadis/desam.mat...
Writing C:/vadis/desam.plc...
Writing C:/vadis/desam.rte...
Made backup of C:/desam8000/desam8000.ini called C:/desam8000/desam8000.bak ...
Writing C:/desam8000/desam8000.tnp...
moved C:/desam8000/desam8000.tnp to C:/desam8000/desam8000.ini ...
Writing C:/vadis/desam.ini...
Copied C:/Desam8000/Dvcg/temp.fmt to C:/vadis/desam.fmt...
Copied C:/Desam8000/Dvcg/temp.fnc to C:/vadis/desam.fnc...
Copied C:/Desam8000/Dvcg/temp.tft to C:/vadis/desam.tft...
Copied C:/Desam8000/Dvcg/temp.scr to C:/vadis/desam.scr...
Copied C:/Desam8000/Dvcg/temp.pre to C:/vadis/desam.pre...
dvcg.pl completed successfully.

```

14. The DOS box will close after approximately 10 seconds.
15. Start the Vadis Application by double clicking the ICON on the desk top. The System status in the lower right hand corner of the Vadis application should display  . If it displays  something is wrong.

Perform the following operations if FAULT is displayed.

- a. Click once on the red  then double click on the "1:" in the upper right hand corner. This will open the VADIS Mainframe-Status window.

See Fig. 1 on the next page.
 - b. To see what the desam.cfg is configured for, look under Configured. This will show what the system is configured for.
 - c. To see what the Vadis frame has installed looked under Actual. If the cards are shown in green then these are correct. In fig.1 below there is an A/D 8 card installed in slot 3 but it is not configured in the system. To correct this problem it would be necessary to go back into the desam.cfg file and write this card in.
 - d. Go back into the desam.cfg file and correct the problem.
 - e. Once the Vadis application displays  continue to the next step.
16. The Vadis application should be running and displaying  . Start the Desam8000 application by double clicking the ICON on the desk top.
 17. The virtual machine table will now have to be modified to add or remove Virtual machines. Please see Define Virtual Machines in the Operations Guide for instructions on this procedure.
 18. It is a good idea to do a system reset after this procedure is complete. For more information see the section on system reset in this manual.

Setting System Operating Level

The D/ESAM 8000 has three operating levels to choose from: -20dBFS, -18dBFS and -16dBFS. When you set an operating level (using the desam.ini file) you are selecting a reference level that the D/ESAM 8000 uses for metering and digital output levels.

The default setting for the D/ESAM 8000 is -20dBFS. To change the system operating level, perform the following steps:

1. Close the DESASM 8000 application.
2. Open Windows NT Explorer.
3. Open the Desam8000 folder on the C: drive.
4. Open the desam8000.ini file.
5. Scroll down to the section labeled [Meter]
6. Under CurrentScale=***** put the following line of Code:

Headroom=20, Headroom=18 or Headroom=16

**Note: If no code is written in this section, the mixer will default to -20dBFS.*

7. Save and close the desam8000.ini file.
8. From the desktop start the DESAM 8000 application.
9. To set tone for -16dBFS, -18dBFS or -20dBFS see the section under Tone Generator in this manual.

**Note: You must be running DESAM 8000 version 1.5D for this option to function.*

D/ESAMTAGS

D/ESAMTAGS are used to change various characteristics of the input and output modules. They will turn on and off the source rate converters on the AES input module. They configure monitor outputs to be meter outputs and set the SDI card to either the 1 X 8 or 2 X 4 mode. These Tags are also listed in the comment section of the `desam.cfg` file in the VADIS folder on the C: drive.

SDI Module

BOARD 3 SDIIN; DESAMTAG IN_CH_MODE M2_BY4

This will set the board in slot 4 of the VADIS Frame to the 2 X 4 mode with the top BNC Group 1 and the bottom BNC Group 2.

BOARD 3 SDIIN; DESAMTAG IN_CH_MODE M1_BY8

This will set the board in slot 4 of the VAIDS Frame to the 1 X 8 mode. All 8 embedded signals will be on the top BNC.

BOARD 3 SDIIN

With no tag, the board is set by the mode jumper on the board itself.

AES Input Module

BOARD 3 AESIN16; DESAMTAG SRC OFF

This will turn off the source rate converters on the AES Input module in slot 4 of the VADIS Frame. OFF and ON are the only two options for this Tag.

Analog Output Module

BOARD 14 DA8

; DESAMTAG AOUT1 METER

This will change the normally configured analog monitor output in slot 15 to be a Meter output to drive external analog meters. This tag needs to be added on a separate line rather than after the board number.

AES Output Module

BOARD 15 AESOUT16

; DESAMTAG DOUT2 METER

This will configure the second set of 8 discrete outputs of the AES output module as Meter outputs to drive external meters. This tag needs to be added on a separate line rather than after the board number.

Boot-Up, Reset and Shut Down Procedures

This section contains procedures for initially booting the system up, re-setting and shutting down the system.

Boot-Up





Follow the steps below to boot-up the D/ESAM 8000 system:

- 1 Power-up the Vadis audio frame by the switch located on the back of the chassis.
- 2 Power-up the controller chassis by the switch located on the back of the chassis next to the power supply *and* the switch located on the front of the chassis.
- 3 Power-up the D/ESAM 8000 control panel or if you have already done this, press the RESET switch located on the back of the console. There is no actual power switch on the console, just plug/unplug the power cable.
4. After the controller chassis boots up, it will automatically log in and launch the Vadis and D/ESAM applications necessary to run the system. Confirm that you see the Home View screen on the right-hand LCD window. This indicates that the system has booted up correctly.

System Reset

The D/ESAM 8000 can be reset from the LCD touch screen. When doing a system reset, all data will be flushed from the DSP's and the panel will be cleared of all assignments. A system reset has no effect on the user and configuration memory registers.

To perform a system reset:

1. From the Status Screen LCD press the  soft-button.
2. From the Main Menu screen press .
3. From the System Menu press .
4. When the confirmation window appears, press  to confirm.
5. This will shut down the PC and reboot the system. This should take approximately 2 minutes.

PC Operation & Shutdown





Warning: It is strongly advised that no additional software be loaded on the PC (games, screen savers, etc). This could cause erratic operation or lock up of the computer.

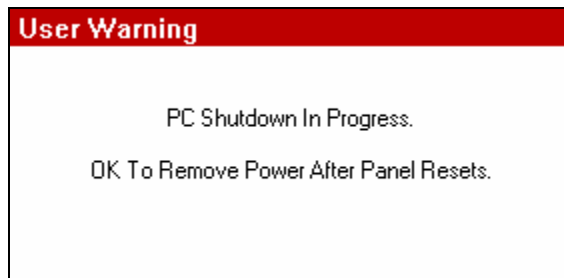
Shutdown

The PC Shutdown operation will perform a shutdown on the mixer's CPU. It is highly recommend that the user use the shutdown operation to shut down the CPU before removing power from the mixer.

NOTE: Removing power from the mixer while the CPU is still operating can cause hard disk failures.

PC Shutdown Operations are as follows:

1. From the Status Screen LCD press the  soft-button.
2. From the Main Menu screen press the .
3. From the System Menu press the .
4. When the confirmation window appears, press  to confirm.
5. The mixer will display the following screen as it begins the power shut down procedure.



6. Once the Control Panel has reset the mixer can be safely powered down.

Note that the PC Shutdown operation does not delete the current mixer set-up.

D/ESAM 8000 INI File

The D/DESAM 8000 INI file contains information used by the DESAM application. Below is a brief description of the file parameters and the user configurable options.

[Vadis]

Automatically generated by the DVCG and should not be changed.

PhysInNum = xx
 DelayNum = xx
 EquEffNr = xx
 DynEffNr = xx

The total number of actual physical inputs (digital, analog)
 The total number of Delay
 The total number of EQ
 The total number of Dynamics

[Init]

Editor information for start up. For Sony editing systems change to ESAM II protocol and parity to e.

StartProtocol =
 Parity = e , o, or n
 LogLevel= xxx

Protocol supported (ESAM II, DESAM IV)
 Parity setting e=even o=odd n=none
 Error message setting

[PC]

SerialNumber = xxx

Net ID of the PC do not change

[Internal Tones]

Setting gain and frequency levels on all eight Tones.

Gain1 = 40
 Frq1 = 17
 Gain2 = 40
 Frq2 = 18
 Gain3=40
 Frq3=19
 Gain4=40
 Frq4=20
 Gain5=40
 Frq5=21
 Gain6=40
 Frq6=22
 Gain7=40
 Frq7=23
 Gain8=40
 Frq8=24

These settings are changed on the GUI of the 8000 application.
 The numbers are indexes into a table of values.
 For example : 40=0dB and 17=1 KHz
Do not change values here.
To set Tone Values see Tone Generator section of this manual.

[Meter]	Allows you to add more meter scales to the selection from the touch screen. You can display/select your choices of meter scales by changing the value from 0(zero) to 1. This will display a button on the touchscreen of the D/ESAM 8000 control panel in the Meter section.
BBCMeterScale=0 ABCWestMeterScale=0 ABCEastMeterScale=0 CBCMeterScale=0 AESMeterScale=1 CurrentScale=AESMeterScale	Current Scale is what is displayed and active.
[Gpi]	General Purpose Interface settings
Task1_StartCond=1 Task1_Type =0 Task1_Cmd =03019e Task1_Para =96	StartCondition is the trigger edge. 1= rising 0 = falling Task numbers are pin numbers of the connector. Type is always 0(zero). Cmd is first 3 bytes of command. Para is parameter and is the rest of the bytes in Hexadecimal value. For more information see GPI Fader Starts in the operations guide.
Task2_StartCond=1 Task2_Type =0 Task2_Cmd =0301aa Task2_Para =ff	
Task3_StartCond=1 Task3_Type =0 Task3_Cmd =03019e Task3_Para =97	
Task6_StartCond=0 Task6_Type =0 Task6_Cmd =0301aa Task6_Para =00	
[Video Sync] Slave=1 Operations ExtSync=2 VideoFormat=0	Video Sync or reference settings are changed through the D/ESAM 8000 panel touch screen. Information can be found in the Manual. Do not change these settings here.
[ButtonMap] 150=180 151=179	Values set for certain commands supported in ESAM II & DESAM IV protocols. The 180 value on the left is for TranStart for the D/ESAM 8000 and value 179 is Cut for the D/ESAM 8000.
[CrosspointMap] LogMach_R=20 LogMach_TONE=101 LogMach_AUX1=10 LogMach_AUX2=11	This is for remapping crosspoints. You can change the R (record) machine to any crosspoint in ESAM II only.

[MonMode]

You can change what is displayed at the bottom of your meter screen by changing the characters in the Default setting. Three character set separated by a comma.

For example Default=CH1,CH2,CH3,CH4,CH5,CH6,CH7,CH8

[BusMap]

Bus1=1,5
Bus2=2,6
Bus3=3,7
Bus4=4,8

The following shows how the Desam8000.ini file should be edited for enabling Bus Mapping for eight channel control from a four channel editing system. For more information see the Bus Mapping section in the operations manual.

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